Claims

1. Adjustable touch-triggered probe for orienting a measuring feeler relative to a measuring apparatus, comprising:

a mobile element capable of turning around an axis;

a resilient device for holding said mobile element in a locked position, preventing said mobile element from moving;

an actuator, opposed to said resilient device, for disengaging said mobile element by displacement in the direction of said axis, allowing said first mobile element to rotate around said axis;

a force transmission mechanism designed to supply an increasing demultiplication ratio for reducing the intensity of the force required for holding said mobile element in disengaged position.

2. Probe according to claim 1, wherein said actuator is designed to cease its action when said force is interrupted.

3. Probe according to claim 1, wherein said actuator disengages said mobile element by the action of two external forces essentially symmetrical and opposed being applied to said actuator.

4. Probe according to claim 3, wherein said demultiplying mechanism comprises at least two pairs of symmetrical connecting rods, each pair being articulated relative to a central point, said external forces being transmitted to said central points.

5. Probe according to claim 3, wherein said demultiplying mechanism comprises at least one helical surface forming an inclined plane or an inclined curved surface and driven in rotation by at least two racks on which said external forces are exerted.

6. Probe according to claim 1, comprising one or several windows for indicating the angular position of said first respectively second mobile element.

7. Probe according to claim 6, comprising at least two windows for indicating the position of said second mobile element.

8. Probe according to claim 1, comprising a large-size light indicator allowing the probe's functioning to be controlled in all measuring positions.

9. Probe according to claim 8, comprising several light-emitting elements placed in various positions for allowing the probe's functioning to be controlled in all measuring positions.

10. Probe according to one of the preceding claims, comprising indexing elements for defining a multiplicity of predetermined and reproducible angular positions for said mobile element.

11. Probe according to one of the preceding claims, comprising:

a second mobile element connected to said mobile element through a second axis for turning said second mobile element relative to said mobile element;

a second resilient device, that can be actuated independently from said resilient device, for holding said second mobile element in a locked position, preventing said second mobile element from rotating;

a second actuator, independent from said actuator, for disengaging said second mobile element, allowing said second mobile element to rotate around said second axis;

a demultiplying mechanism for reducing the intensity of the force required for disengaging said second mobile element;

a probe feeler connected to said second mobile element.

5